

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/040119 A1

(51) International Patent Classification⁷: C07D 211/62, 401/04, 295/215, A61K 31/445, 31/506, 31/495, 31/496, A61P 13/00, 29/00

(21) International Application Number:
PCT/EP2004/010606

(22) International Filing Date:
22 September 2004 (22.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03022235.0 1 October 2003 (01.10.2003) EP
03025570.7 8 November 2003 (08.11.2003) EP

(71) Applicant (for all designated States except US): BAYER HEALTHCARE AG [DE/DE]; 51368 Leverkusen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BOUCHON, Axel [DE/DE]; Brüsseler Platz 5, 50674 Köln (DE). DIEDRICHES, Nicole [DE/DE]; Laurentiusstr. 12, 42103 Wuppertal (DE). HERMANN, Achim [DE/DE]; Ackerstr. 150, 40233 Düsseldorf (DE). LUSTIG, Clemens [DE/DE]; Falkenberg 159, 42113 Wuppertal (DE). MEIER, Heinrich [DE/DE]; Claudiusweg 3, 42115 Wuppertal (DE). PERNERSTORFER, Josef [AT/DE]; Gerresheimer Str. 9, 40721 Hilden (DE). REISSMÜLLER, Elke [DE/DE]; Pahlkestrasse 5, 42115 Wuppertal (DE). DE VRY, Jean [BE/DE]; Mühlenrötschen 40, 52223 Stolberg (DE). MOGI, Muneto [JP/JP]; 5-10-57-102, Daianji, Nara-shi, Nara 630-8133 (JP). URBAHNS, Klaus [DE/JP]; 6-3-301, Kusugaoka-cho, Nada-ku, Kobe-shi, Hyogo 657-0024 (JP). YURA, Takeshi [JP/JP]; 4-8-1, Suzaku, Nara-shi, Nara 631-0806 (JP). FUJISHIMA, Hiroshi [JP/JP]; 3-23-25, Sakyo, Nara-shi, Nara 631-0801 (JP). TAJIMI, Masaomi [JP/JP]; 1-8-17,

Sakuragaoka, Seika-cho, Soraku-gun, Kyoto 619-0232 (JP). YAMAMOTO, Noriyuki [JP/JP]; 6-6-1-3-404, Jungu, Nara-shi, Nara 631-0804 (JP). YUASA, Hiroaki [JP/JP]; 4-2-4-101, Kunimida, Kizu-cho, Soraku-gun, Kyoto, 619-0216 (JP). GUPTA, Jang [IN/JP]; 803-5-15, Koyo-cho, Naka, Higashinada-ku, Kobe, Hyogo-ken 658-0032 (JP). TSUKIMI, Yasuhiro [JP/JP]; 2-10-1, Kukuchi, Amagasaki-shi, Hyogo 661-0977 (JP). HAYASHI, Fumihiro [JP/JP]; 5-1-3-17-402, Kabutodai, Kizu-cho, Soraku-gun, Kyoto 619-0224 (JP).

(74) Common Representative: BAYER HEALTHCARE AG; Law and Patents, Patents and Licensing, 51368 Leverkusen (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TETRAHYDRO-NAPHTHALENE AND UREA DERIVATIVES

(57) Abstract: This invention relates to a hydroxy-tetrahydro-naphthalene or an urea derivative formula (I) and salts thereof which are useful as active ingredients of pharmaceutical preparations, wherein A represents formula (II) or (III) wherein # represents the connection position to the molecule and Q_{1a}, Q_{2a}, Q_{3a} and Q_{4a} are defined, and E represents formula (IV) or (V) wherein # represents the connection position to the molecule and Q_{1b}, Q_{2b}, Q_{3b}, Q_{4b}, Q_{5b}, R^{1b}, na, ma, X_a and R_a are defined.

WO 2005/040119 A1